



1600

## RAW SEQUENCE LISTING

DATE: 03/12/2004

PATENT APPLICATION: US/10/086,489

TIME: 14:54:04

Input Set : A:\pto.da.txt

Output Set: N:\CRF4\03122004\J086489.raw

3 <110> APPLICANT: The Trustees of Columbia University  
 5 <120> TITLE OF INVENTION: METHOD TO DETECT MUTATIONS IN NUCLEIC ACID USING A  
 HYBRIDIZATION-LIGATION  
 6 PROCEDURE  
 8 <130> FILE REFERENCE: 0575/44012-AB  
 10 <140> CURRENT APPLICATION NUMBER: 10/086,489  
 11 <141> CURRENT FILING DATE: 2002-02-28  
 13 <150> PRIOR APPLICATION NUMBER: 09/100,707  
 14 <151> PRIOR FILING DATE: 1998-06-19  
 16 <150> PRIOR APPLICATION NUMBER: 08/853,000  
 17 <151> PRIOR FILING DATE: 1997-05-08  
 19 <150> PRIOR APPLICATION NUMBER: 08/409,644  
 20 <151> PRIOR FILING DATE: 1995-03-24  
 22 <160> NUMBER OF SEQ ID NOS: 7  
 24 <170> SOFTWARE: PatentIn version 3.1  
 26 <210> SEQ ID NO: 1  
 27 <211> LENGTH: 24  
 28 <212> TYPE: DNA  
 29 <213> ORGANISM: human  
 31 <400> SEQUENCE: 1  
 32 gaacagggtt tgtaagatg gcag 24  
 35 <210> SEQ ID NO: 2  
 36 <211> LENGTH: 25  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: human  
 40 <400> SEQUENCE: 2  
 41 agccccggtaa tcgcataaaa cttaa 25  
 44 <210> SEQ ID NO: 3  
 45 <211> LENGTH: 19  
 46 <212> TYPE: DNA  
 47 <213> ORGANISM: human  
 49 <400> SEQUENCE: 3  
 50 ctgccatctt aacaaaccc 19  
 53 <210> SEQ ID NO: 4  
 54 <211> LENGTH: 21  
 55 <212> TYPE: DNA  
 56 <213> ORGANISM: human  
 58 <400> SEQUENCE: 4  
 59 gttttatgcg attaccgggc c 21  
 62 <210> SEQ ID NO: 5  
 63 <211> LENGTH: 12  
 64 <212> TYPE: DNA  
 65 <213> ORGANISM: human  
 67 <220> FEATURE:

ENTERED

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Input Set : A:\pto.da.txt

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68 <221> NAME/KEY: misc\_feature  
 69 <222> LOCATION: (1)..(1)  
 70 <223> OTHER INFORMATION: "N" means any base  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: misc\_feature  
 75 <222> LOCATION: (2)..(2)  
 76 <223> OTHER INFORMATION: "N" means any base  
 79 <220> FEATURE:  
 80 <221> NAME/KEY: misc\_feature  
 81 <222> LOCATION: (3)..(3)  
 82 <223> OTHER INFORMATION: "N" means any base  
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 86 <221> NAME/KEY: misc\_feature  
 87 <222> LOCATION: (10)..(10)  
 88 <223> OTHER INFORMATION: "N" means any base  
 91 <220> FEATURE:  
 92 <221> NAME/KEY: misc\_feature  
 93 <222> LOCATION: (11)..(11)  
 94 <223> OTHER INFORMATION: "N" means any base  
 97 <220> FEATURE:  
 98 <221> NAME/KEY: misc\_feature  
 99 <222> LOCATION: (12)..(12)  
 100 <223> OTHER INFORMATION: "N" means any base  
 103 <400> SEQUENCE: 5

W--&gt; 104 nnncccggn nn

12

107 <210> SEQ ID NO: 6  
 108 <211> LENGTH: 70  
 109 <212> TYPE: DNA  
 110 <213> ORGANISM: human  
 112 <400> SEQUENCE: 6  
 113 ctgccatctt aacaaacct tttttttttt tttttttttt tttttttttg ttttatgcga 60  
 115 ttaccgggcc 70  
 118 <210> SEQ ID NO: 7  
 119 <211> LENGTH: 68  
 120 <212> TYPE: DNA  
 121 <213> ORGANISM: human  
 123 <220> FEATURE:  
 124 <221> NAME/KEY: misc\_structure  
 125 <222> LOCATION: (20)..(47)  
 126 <223> OTHER INFORMATION: spacer region  
 129 <220> FEATURE:  
 130 <221> NAME/KEY: misc\_feature  
 131 <222> LOCATION: (20)..(20)  
 132 <223> OTHER INFORMATION: "N" means any base  
 135 <220> FEATURE:  
 136 <221> NAME/KEY: misc\_feature  
 137 <222> LOCATION: (21)..(21)  
 138 <223> OTHER INFORMATION: "N" means any base  
 141 <220> FEATURE:

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142 <221> NAME/KEY: misc\_feature  
143 <222> LOCATION: (22)..(22)  
144 <223> OTHER INFORMATION: "N" means any base  
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148 <221> NAME/KEY: misc\_feature  
149 <222> LOCATION: (23)..(23)  
150 <223> OTHER INFORMATION: "N" means any base  
153 <220> FEATURE:  
154 <221> NAME/KEY: misc\_feature  
155 <222> LOCATION: (24)..(24)  
156 <223> OTHER INFORMATION: "N" means any base  
159 <220> FEATURE:  
160 <221> NAME/KEY: misc\_feature  
161 <222> LOCATION: (25)..(25)  
162 <223> OTHER INFORMATION: "N" means any base  
165 <220> FEATURE:  
166 <221> NAME/KEY: misc\_feature  
167 <222> LOCATION: (26)..(26)  
168 <223> OTHER INFORMATION: "N" means any base  
171 <220> FEATURE:  
172 <221> NAME/KEY: misc\_feature  
173 <222> LOCATION: (27)..(27)  
174 <223> OTHER INFORMATION: "N" means any base  
177 <220> FEATURE:  
178 <221> NAME/KEY: misc\_feature  
179 <222> LOCATION: (28)..(28)  
180 <223> OTHER INFORMATION: "N" means any base  
183 <220> FEATURE:  
184 <221> NAME/KEY: misc\_feature  
185 <222> LOCATION: (29)..(29)  
186 <223> OTHER INFORMATION: "N" means any base  
189 <220> FEATURE:  
190 <221> NAME/KEY: misc\_feature  
191 <222> LOCATION: (30)..(30)  
192 <223> OTHER INFORMATION: "N" means any base  
195 <220> FEATURE:  
196 <221> NAME/KEY: misc\_feature  
197 <222> LOCATION: (31)..(31)  
198 <223> OTHER INFORMATION: "N" means any base  
201 <220> FEATURE:  
202 <221> NAME/KEY: misc\_feature  
203 <222> LOCATION: (32)..(32)  
204 <223> OTHER INFORMATION: "N" means any base  
207 <220> FEATURE:  
208 <221> NAME/KEY: misc\_feature  
209 <222> LOCATION: (33)..(33)  
210 <223> OTHER INFORMATION: "N" means any base  
213 <220> FEATURE:  
214 <221> NAME/KEY: misc\_feature

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Input Set : A:\pto.da.txt

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215 <222> LOCATION: (34)..(34) ✓  
216 <223> OTHER INFORMATION: "N" means any base  
219 <220> FEATURE:  
220 <221> NAME/KEY: misc\_feature ✓  
221 <222> LOCATION: (35)..(35)  
222 <223> OTHER INFORMATION: "N" means any base  
225 <220> FEATURE:  
226 <221> NAME/KEY: misc\_feature ✓  
227 <222> LOCATION: (36)..(36)  
228 <223> OTHER INFORMATION: "N" means any base  
231 <220> FEATURE:  
232 <221> NAME/KEY: misc\_feature ✓  
233 <222> LOCATION: (37)..(37)  
234 <223> OTHER INFORMATION: "N" means any base  
237 <220> FEATURE:  
238 <221> NAME/KEY: misc\_feature ✓  
239 <222> LOCATION: (38)..(38)  
240 <223> OTHER INFORMATION: "N" means any base  
243 <220> FEATURE:  
244 <221> NAME/KEY: misc\_feature ✓  
245 <222> LOCATION: (39)..(39)  
246 <223> OTHER INFORMATION: "N" means any base  
249 <220> FEATURE:  
250 <221> NAME/KEY: misc\_feature  
251 <222> LOCATION: (40)..(40) ✓  
252 <223> OTHER INFORMATION: "N" means any base  
255 <220> FEATURE:  
256 <221> NAME/KEY: misc\_feature ✓  
257 <222> LOCATION: (41)..(41)  
258 <223> OTHER INFORMATION: "N" means any base  
261 <220> FEATURE:  
262 <221> NAME/KEY: misc\_feature ✓  
263 <222> LOCATION: (42)..(42)  
264 <223> OTHER INFORMATION: "N" means any base  
267 <220> FEATURE:  
268 <221> NAME/KEY: misc\_feature ✓  
269 <222> LOCATION: (43)..(43)  
270 <223> OTHER INFORMATION: "N" means any base  
273 <220> FEATURE:  
274 <221> NAME/KEY: misc\_feature ✓  
275 <222> LOCATION: (44)..(44)  
276 <223> OTHER INFORMATION: "N" means any base  
279 <220> FEATURE:  
280 <221> NAME/KEY: misc\_feature ✓  
281 <222> LOCATION: (45)..(45)  
282 <223> OTHER INFORMATION: "N" means any base  
285 <220> FEATURE:  
286 <221> NAME/KEY: misc\_feature ✓  
287 <222> LOCATION: (46)..(46)

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Input Set : A:\pto.da.txt

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288 &lt;223&gt; OTHER INFORMATION: "N" means any base

291 &lt;220&gt; FEATURE:

292 &lt;221&gt; NAME/KEY: misc\_feature

293 &lt;222&gt; LOCATION: (47)..(47)

294 &lt;223&gt; OTHER INFORMATION: "N" means any base

297 &lt;400&gt; SEQUENCE: 7

W--> 298 ctgccatctt aacaaaccn nnnnnnnnnn nnnnnnnnnn nnnnnngtt ttatgcgatt 60  
300 accgggcc 68

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/086,489

DATE: 03/12/2004  
TIME: 14:54:05

Input Set : A:\pto.da.txt  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:5; N Pos. ~~1, 2, 3, 10, 11, 12~~

Seq#:7; N Pos. ~~20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39~~

Seq#:7; N Pos. ~~40, 41, 42, 43, 44, 45, 46, 47~~

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 5

## VERIFICATION SUMMARY

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Input Set : A:\pto.da.txt

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L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5 after pos.:0

L:298 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:0